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Green synthesis of capped gold nanoparticles as drug delivery

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Metal nanoparticles is an area of research all over the globe due to their enchanting applications in various fields such as sensor technology, catalysis, optics, drug delivery, and biomedical. Gold nanoparticle (AuNP) and its colloidal dispersions are promising candidates for future scientific, industrial, and domestic applications. AuNP have been used as nano-biomaterials for molecular imaging and drug delivery in recent years. Because AuNP can be modified in different ways, and be used due to its association with receptors coupled with several forms of therapeutics. Microwave assisted synthesis using plant extracts as both reducing and capping is a rapid and facile green synthesis of metal nanoparticles. It has several attractive features such as short reaction time, lower energy consumption and better product yield. We used the MW approach as a simple, green and cost-effective method for the rapid and facile synthesis of plant latex AuNP as a potential drug delivery for cancer. Spectroscopic, size and zeta was measured.

Biography

Anderson J Gomes has completed his Undergraduate in Chemistry from Universidade Federal of Uberlandia (1995), Master's at Chemistry from Universidade de São Paulo (1998) and PhD at Chemistry from Universidade de São Paulo (2003). Has experience in Chemistry, focusing on Photochemistry and Nanotechnology. He has published more than 25 papers in reputed journals.

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